

#3

SEQUENCE LISTING

<110> Rebar, Edward
Jamieson, Andrew
Liu, Qiang
Liu, Pei-Qi
Wolffe, Alan
Eisenberg, Stephen P.
Jarvis, Eric
Sangamo BioSciences, Inc.

<120> Regulation of Angiogenesis With Zinc Finger Proteins

<130> 019496-005830US

<140> To Be Assigned
<141> To Be Assigned

<150> US 09/733,604
<151> 2000-12-07

<150> US 09/736,083
<151> 2000-12-12

<150> US 09/846,033
<151> 2001-04-30

<160> 252

<170> FastSEQ for Windows Version 3.0

<210> 1
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 1

atggacggg

9

<210> 2
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 2

kggggctgg

9

<210> 3
<211> 9
<212> DNA
<213> Artificial Sequence

```

<220>
<223> target

<400> 3
gagkgkgyg 9

<210> 4
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 4
gggggagg 9

<210> 5
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 5
ggdtgggg 9



---


<210> 6
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 6
argggggag 9

<210> 7
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 7
tgggcagac 9

<210> 8
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 8
tgggggtgg 9

```

<210> 9
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 9
atggacggg 9

<210> 10
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 10
gyaggggcc 9

<210> 11
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 11
gdggaagcc 9

<210> 12
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 12
akggaaggg 9

<210> 13
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 13
gccggggag 9

<210> 14
<211> 9
<212> DNA
<213> Artificial Sequence

```

<220>
<223> target

<400> 14
ggggaggvk                                9

<210> 15
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 15
ggggaggvk                                9

<210> 16
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 16
ggggaggvk                                9



---


<210> 17
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 17
ggggaggat                                9

<210> 18
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 18
ggggvggat                                9

<210> 19
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 19
ggggaggmt                                9

```

<210> 20
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 20
gawgggggc 9

<210> 21
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 21
atgggggtg 9

<210> 22
<211> 9
<212> DNA
<213> Artificial Sequence

<220>

<223> target

<400> 22
gggggctgg 9

<210> 23
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 23
gdgtgggn 9

<210> 24
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 24
gggggccc 9

<210> 25
<211> 9
<212> DNA
<213> Artificial Sequence

```

<220>
<223> target

<400> 25
gctgggggc 9

<210> 26
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 26
gggggtgac 9

<210> 27
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 27
gggggtgac 9

-----<210> 28
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 28
gctggagca 9

<210> 29
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 29
ggggghgct 9

<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 30
Arg Ser Asp His Leu Ala Arg
1 5

```

<210> 31
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 31
Arg Ser Asp His Leu Thr Thr
1 5

<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 32
Arg Leu Asp Ser Leu Leu Arg
1 5

<210> 33
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 33
Gln Thr Gly His Leu Arg Arg
1 5

<210> 34
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 34
Arg Ser Asp His Leu Ala Arg
1 5

<210> 35
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 35
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 36
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 36
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 37
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 37
Arg Ser Asp His Leu Thr Thr
1 5

<210> 38
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 38
Arg Ser Asp His Leu Ala Arg
1 5

<210> 39
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 39
Asp Arg Ser Ser Leu Thr Arg
1 5

<210> 40
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 40
Glu Arg Gly Thr Leu Ala Arg
1 5

<210> 41
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 41
Arg Ser Asp His Leu Ala Arg
1 5

<210> 42
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 42
Arg Ser Asp Asn Leu Thr Arg
1 5

<210> 43
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 43
Thr Thr Ser Asn Leu Arg Arg
1 5

<210> 44
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 44
Thr Thr Ser Asn Leu Arg Arg
1 5

<210> 45
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 45
Thr Thr Ser Asn Leu Arg Arg
1 5

<210> 46
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 46
Gln Ser Ser Asn Leu Ala Arg
1 5

<210> 47
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 47
Thr Thr Ser Asn Leu Ala Arg
1 5

<210> 48
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 48
Gln Ser Ser Asn Leu Arg Arg
1 5

<210> 49
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 49
Asp Ser Gly His Leu Thr Arg
1 5

<210> 50
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 50
Arg Ser Asp Ala Leu Thr Arg
1 5

<210> 51
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 51
Arg Ser Asp His Leu Thr Thr
1 5

<210> 52
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 52
Gln Ser Ser His Leu Ala Arg
1 5

<210> 53
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 53
Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 54
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 54
Asp Arg Ser His Leu Thr Arg
1 5

<210> 55
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 55
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 56
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 56
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 57
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 57
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 58
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 58
Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 59
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 59
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 60
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 60
Asp Arg Ser His Leu Ala Arg
1 5

<210> 61
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 61
Asp Arg Asp His Leu Thr Arg
1 5

<210> 62
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 62
Gln Ser Gly His Leu Gln Arg
1 5

<210> 63
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 63
Arg Ser Asp His Leu Thr Thr
1 5

<210> 64
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 64
Arg Ser Asp His Leu Ser Arg
1 5

<210> 65
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 65
Gln Ser Gly Asp Leu Thr Arg
1 5

<210> 66
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 66
Arg Ser Asp His Leu Thr Arg
1 5

<210> 67
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 67
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 68
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 68
Arg Ser Asp His Leu Ser Arg
1 5

<210> 69
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 69
Gln Ser Gly Asn Leu Ala Arg
1 5

<210> 70
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 70
Gln Ser Gly Asn Leu Ala Arg
1 5

<210> 71
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 71
Arg Ser Asp His Leu Thr Arg
1 5

<210> 72
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 72
Arg Ser Ser Asn Leu Gln Arg
1 5

<210> 73
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 73
Arg Ser Ser Asn Leu Gln Arg
1 5

<210> 74
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 74
Arg Ser Asp Asn Leu Gln Arg
1 5

<210> 75
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 75
Arg Ser Asp Asn Leu Gln Arg
1 5

<210> 76
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 76
Arg Ser Asp Asn Leu Gln Arg
1 5

<210> 77
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 77
Arg Ser Asp Asn Leu Gln Arg
1 5

<210> 78
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 78
Arg Ser Asp His Leu Thr Arg
1 5

<210> 79
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 79
Arg Ser Asp His Leu Thr Arg
1 5

<210> 80
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 80
Asp Arg Ser His Leu Ala Arg
1 5

<210> 81
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 81
Arg Ser Asp His Leu Thr Thr
1 5

<210> 82
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 82
Asp Arg Ser His Leu Ala Arg
1 5

<210> 83
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 83
Arg Ser Asp His Leu Thr Arg
1 5

<210> 84
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 84
Met Ser His His Leu Ser Arg
1 5

<210> 85
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 85
Thr Ser Gly His Leu Val Arg
1 5

<210> 86
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 86
Gln Ser Gly His Leu Gln Arg
1 5

<210> 87
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 87
Gln Ser Ser His Leu Ala Arg
1 5

<210> 88
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 88
Arg Ser Asp Ala Leu Thr Gln
1 5

<210> 89
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 89
Arg Ser Asp His Leu Ser Lys
1 5

<210> 90
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 90
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 91
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 91
Arg Ser Asp His Leu Ser Arg
1 5

<210> 92
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 92
Gln Arg Ala His Leu Ala Arg
1 5

<210> 93
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 93
Arg Ser Asp Asn Leu Thr Gln
1 5

<210> 94
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 94
Arg Ser Asp His Leu Thr Thr
1 5

<210> 95
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 95
Arg Ser Asp His Leu Thr Thr
1 5

<210> 96
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 96
Arg Ser Asp Ala Leu Ser Ala
1 5

<210> 97
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 97
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 98
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 98
Arg Ser Asp Ala Leu Ala Arg
1 5

<210> 99
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 99
Arg Ser Asp Ala Leu Arg Gln
1 5

<210> 100
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 100
Asp Arg Ser Asp Leu Thr Arg
1 5

<210> 101
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 101
Arg Ser Asp His Leu Ser Arg
1 5

<210> 102
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 102
Arg Ser Asp His Leu Ser Arg
1 5

<210> 103
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 103
Arg Ser Asp His Leu Ser Arg
1 5

<210> 104
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 104
Arg Ser Asp His Leu Ser Arg
1 5

<210> 105
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 105
Arg Ser Asp His Leu Ser Arg
1 5

<210> 106
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 106
Arg Ser Asp His Leu Ser Arg
1 5

<210> 107
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 107
Gln Ser Gly Asn Leu Thr Arg
1 5

<210> 108
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 108
Arg Ser Asp Ala Leu Thr Gln
1 .5

<210> 109
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 109
Arg Ser Asp His Leu Ser Arg
1 5

<210> 110
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 110
Arg Ser Asp Ala Leu Ala Arg
1 5

<210> 111
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 111
Arg Ser Asp His Leu Ser Arg
1 5

<210> 112
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 112
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 113
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 113
Arg Ser Asp His Leu Ser Arg
1 5

<210> 114
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 114
Arg Ser Asp His Leu Ser Arg
1 5

<210> 115
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 115
Gln Ser Ser Asp Leu Thr Arg
1 5

```

<210> 116
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 116
Arg Ser Asp His Leu Ser Arg
1 5

<210> 117
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 117
gtggaggggg tcggggct 18

<210> 118
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 118
ggagaggggg cygcagtg 18

<210> 119
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 119
atggacgggt gaggyggg 19

<210> 120
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 120
Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 121
<211> 7
<212> PRT
<213> Artificial Sequence

```

<220>
<223> finger

<400> 121
Arg Ser Asp Ala Leu Thr Arg
1 5

<210> 122
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 122
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 123
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 123
Arg Ser Asp His Leu Thr Arg
1 5

<210> 124
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 124
Gln Ser Gly Asp Leu Thr Arg
1 5

<210> 125
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 125
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 126
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 126
Asp Arg Ser Ala Leu Ala Arg
1 5

<210> 127
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 127
Glu Arg Gly Asp Leu Thr Arg
1 5

<210> 128
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 128
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 129
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 129
Arg Ser Asp His Leu Ala Arg
1 5

<210> 130
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 130
Arg Ser Asp His Leu Ala Arg
1 5

<210> 131
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> finger

<400> 131
Arg Ser Asp His Leu Ala Arg
1 5

<210> 132
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 132
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 133
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 133
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 134
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 134
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 135
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 135
Arg Ser Asp Ala Leu Thr Arg
1 5

<210> 136
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 136
 Gln Ser Gly His Leu Gln Arg
 1 5

 <210> 137
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> finger

 <400> 137
 Arg Ser Asp Ala Leu Thr Gln
 1 5

 <210> 138
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> target

 <400> 138
 gaagaggacc

<210> 139
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> target

 <400> 139
 gggggcgctc

<210> 140
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> target

 <400> 140
 gtgtggggtt

<210> 141
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> target

 <400> 141
 ggggcggggg

<210> 142	
<211> 10	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> target	
<400> 142	
ggggaggatc	10
<210> 143	
<211> 10	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> target	
<400> 143	
gctgggggck	10
<210> 144	
<211> 10	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> target	
<400> 144	
gggggtgacc	10
<210> 145	
<211> 10	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> target	
<400> 145	
gggggtgacc	10
<210> 146	
<211> 10	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> target	
<400> 146	
aagggggagg	10
<210> 147	
<211> 10	
<212> DNA	
<213> Artificial Sequence	

```

<220>
<223> target

<400> 147
gcagggggccg                                10

<210> 148
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 148
gctggagcac                                10

<210> 149
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 149
Glu Lys Ala Asn Leu Thr Arg
1           5

<210> 150
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 150
Arg Ser Asp Asn Leu Thr Arg
1           5

<210> 151
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 151
Gln Arg Ser Asn Leu Val Arg
1           5

<210> 152
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

```

<400> 152
Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 153
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 153
Gln Ser Ser His Leu Ala Arg
1 5

<210> 154
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 154
Arg Ser Asp His Leu Ser Arg
1 5

<210> 155
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 155
Gln Ser Ser His Leu Ala Arg
1 5

<210> 156
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 156
Arg Ser Asp His Leu Thr Thr
1 5

<210> 157
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 157
Arg Ser Asp Ala Leu Ala Arg
1 5

<210> 158
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 158
Lys Thr Ser His Leu Arg Ala
1 5

<210> 159
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 159
Arg Ser Asp Glu Leu Gln Arg
1 5

<210> 160
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 160
Arg Ser Asp His Leu Ser Lys
1 5

<210> 161
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 161
Thr Thr Ser Asn Leu Arg Arg
1 5

<210> 162
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 162
Arg Ser Ser Asn Leu Gln Arg
1 5

<210> 163
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 163
Arg Ser Asp His Leu Ser Arg
1 5

<210> 164
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 164
Asp Arg Ser His Leu Thr Arg
1 5

<210> 165
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 165
Arg Ser Asp His Leu Thr Arg
1 5

<210> 166
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 166
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 167
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 167
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 168
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 168
Thr Ser Gly His Leu Val Arg
1 5

<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 169
Arg Ser Asp His Leu Ser Arg
1 5

<210> 170
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 170
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 171
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 171
Met Ser His His Leu Ser Arg
1 5

<210> 172
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 172
Arg Ser Asp His Leu Ser Arg
1 5

<210> 173
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 173
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 174
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 174
Arg Ser Asp His Leu Ser Arg
1 5

<210> 175
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 175
Arg Ser Asp Asn Leu Thr Gln
1 5

<210> 176
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 176
Asp Arg Ser Ser Leu Thr Arg
1 5

<210> 177
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 177
Arg Ser Asp His Leu Ser Arg
1 5

<210> 178
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 178
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 179
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 179
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 180
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 180
Gln Ser Gly His Leu Gln Arg
1 5

<210> 181
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 181
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 182
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<pre> <400> 182 ggagaggggg ccccagtg <210> 183 <211> 19 <212> DNA <213> Artificial Sequence <220> <223> target <400> 183 atggacgggt gaggcgccg </pre>	18
<pre> <210> 184 <211> 9 <212> DNA <213> Artificial Sequence <220> <223> target <400> 184 gggggtgac </pre>	19
<hr/> <pre> <210> 185 <211> 9 <212> DNA <213> Artificial Sequence <220> <223> target <400> 185 gctgggggc </pre>	9
<pre> <210> 186 <211> 7 <212> PRT <213> Artificial Sequence <220> <223> recognition helix <400> 186 Arg Ser Asp Ala Leu Thr Arg 1 5 </pre>	9
<pre> <210> 187 <211> 7 <212> PRT <213> Artificial Sequence <220> <223> recognition helix <400> 187 Gln Ser Gly Asp Leu Thr Arg 1 5 </pre>	

<210> 188
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 188
Glu Arg Gly Asp Leu Thr Arg
1 5

<210> 189
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 189
Arg Ser Asp His Leu Ala Arg
1 5

<210> 190
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 190
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 191
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 191
Gln Ser Ser His Leu Ala Arg
1 5

<210> 192
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 192
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 193
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 193
Arg Ser Asp Glu Leu Gln Arg
1 5

<210> 194
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 194
Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 195
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 195
Arg Ser Asp His Leu Ala Arg
1 5

<210> 196
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 196
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 197
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 197
Arg Ser Asp Ala Leu Thr Gln
1 5

<210> 198
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 198
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 199
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 199
Met Ser His His Leu Ser Arg
1 5

<210> 200
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 200
Arg Ser Asp His Leu Ser Arg
1 5

<210> 201
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 201
Asp Arg Ser His Leu Thr Arg
1 5

<210> 202
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 202
Arg Ser Asp His Leu Thr Arg
1 5

```

<210> 203
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 203
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 204
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-C forward primer

<400> 204
tgccgatgca tgtctaaact 20

<210> 205
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-C reverse primer

<400> 205
tgaacaggtc tcttcatcca gc 22

<210> 206
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-C probe

<221> modified_base
<222> (1)...(1)
<223> n = c modified by aminofluorescein (FAM)

<221> modified_base
<222> (26)...(26)
<223> n = a modified by tetramethylrhodamine (TAMRA)

<400> 206
nagcaacact accacagtgt caggcn 26

<210> 207
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> target

```

<400> 207
 tgagcggcg_g cagcg_gagc
 10

<210> 208
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> exemplary DNA-binding subdomain motif of C-2H-2
 class of zinc finger proteins (ZFP)

<221> MOD_RES
 <222> (2)...(5)
 <223> Xaa = any amino acid, Xaa in positions 4 and 5 may
 be present or absent

<221> MOD_RES
 <222> (7)...(18)
 <223> Xaa = any amino acid

<221> MOD_RES
 <222> (20)...(24)
 <223> Xaa = any amino acid, Xaa in positions 23 and 24
 may be present or absent

<400> 208

Cys	Xaa	Xaa	Xaa	Xaa	Cys	Xaa								
1					5				10					15
Xaa	Xaa	His	Xaa											
			20					25						

<210> 209
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> target

<400> 209

ggcgttagac

9

<210> 210
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> target

<400> 210

ggcgacgta

9

<210> 211
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
<223> peptide linker

<400> 211
Thr Gly Glu Lys Pro
1 5

<210> 212
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 212
Gly Gly Gly Ser
1 5

<210> 213
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 213
Gly Gly Arg Arg Gly Gly Ser
1 5

<210> 214
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 214
Leu Arg Gln Arg Asp Gly Glu Arg Pro
1 5

<210> 215
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 215
Leu Arg Gln Lys Asp Gly Gly Ser Glu Arg Pro
1 5 10

<210> 216
<211> 16
<212> PRT
<213> Artificial Sequence

```

<220>
<223> peptide linker

<400> 216
Leu Arg Gln Lys Asp Gly Gly Ser Gly Gly Ser Glu Arg Pro
 1           5           10          15

<210> 217
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> F1 DNA binding domain of mouse transcription
      factor Zif268

<400> 217
Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
 1           5           10          15
Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro
 20          25          30

<210> 218
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> F2 DNA binding domain of mouse transcription
      factor Zif268

<400> 218
Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu
 1           5           10          15
Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro
 20          25

<210> 219
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> F3 DNA binding domain of mouse transcription
      factor Zif268

<400> 219
Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg
 1           5           10          15
Lys Arg His Thr Lys Ile His Leu Arg Gln Lys
 20          25

<210> 220
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> mouse transcription factor Zif268 target

```

<400> 220
gcgtggcg

9

<210> 221
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> Sp-1 transcription factor

<400> 221
Pro Gly Lys Lys Gln His Ile Cys His Ile Gln Gly Cys Gly Lys
1 5 10 15
Val Tyr Gly Lys Thr Ser His Leu Arg Ala His Leu Arg Trp His Thr
20 25 30
Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg Phe
35 40 45
Thr Arg Ser Asp Glu Leu Gln Arg His Lys Arg Thr His Thr Gly Glu
50 55 60
Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser Asp
65 70 75 80
His Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly
85 90

<210> 222
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Sp-1 optimal target consensus sequence

<400> 222
ggggcgggg

9

<210> 223
<211> 100
<212> PRT
<213> Artificial Sequence

<220>
<223> Sp-i consensus sequence with leader sequence

<400> 223
Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Gln
1 5 10 15
His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Lys Ser Ser His Leu
20 25 30
Arg Ala His Gln Arg Thr His Thr Gly Glu Arg Pro Tyr Lys Cys Pro
35 40 45
Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Gln Arg His Gln
50 55 60
Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
65 70 75 80
Ser Phe Ser Arg Ser Asp His Leu Ser Lys His Gln Arg Thr His Gln
85 90 95
Asn Lys Lys Gly
100

```

<210> 224
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> N-terminal nuclear localization signal from SV40
      large T antigen

<400> 224
Pro Lys Lys Lys Arg Lys Val
 1           5

<210> 225
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> FLAG peptide

<400> 225
Asp Tyr Lys Asp Asp Asp Asp Lys
 1           5

<210> 226
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-A forward primer
      .

<400> 226
gtgcattgga gccttgcctt g                                21

<210> 227
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-A reverse primer

<400> 227
actcgatctc atcagggtac tc                                22

<210> 228
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-A Taqman probe

<221> modified_base
<222> (1)...(1)
<223> n = c modified by aminofluorescein (FAM)

```

<221> modified_base
 <222> (25)...(25)
 <223> n = a modified by tetramethylrhodamine (TAMRA)

 <400> 228
 nagtagctgc gctgatagac atccn

25

<210> 229
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GAPDH forward primer

<400> 229
 ccatgttcgt catgggtgtg a

21

<210> 230
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GAPDH reverse primer

<400> 230
catggactgt ggtcatgagt

20

<210> 231
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GAPDH Taqman probe

<221> modified_base
 <222> (1)...(1)
 <223> n = t modified by aminofluorescein (FAM)

<221> modified_base
 <222> (24)...(24)
 <223> n = a modified by tetramethylrhodamine (TAMRA)

<400> 231
 ncctgcacca ccaactgctt agcn

24

<210> 232
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> VP16-FLAG forward primer

<400> 232
 catgacgatt tcgatctgga

20

<210> 233
 <211> 22

<pre> <212> DNA <213> Artificial Sequence <220> <223> VP16-FLAG reverse primer <400> 233 ctacttgtca tcgtcgctcct tg </pre>	22
<pre> <210> 234 <211> 26 <212> DNA <213> Artificial Sequence <220> <223> VP16-FLAG Taqman probe <221> modified_base <222> (1)...(1) <223> n = a modified by aminofluorescein (FAM) <221> modified_base <222> (26)...(26) <223> n = a modified by tetramethylrhodamine (TAMRA) <400> 234 ntcggtaaac atctgctcaa actcgn </pre>	26
<hr/>	
<pre> <210> 235 <211> 28 <212> DNA <213> Artificial Sequence <220> <223> RT-PCR primer <400> 235 atgaactttc tgctgtcttg ggtgcatt </pre>	28
<pre> <210> 236 <211> 22 <212> DNA <213> Artificial Sequence <220> <223> RT-PCR primer <400> 236 tcaccgcctc ggcttgcac at </pre>	22
<pre> <210> 237 <211> 18 <212> DNA <213> Artificial Sequence <220> <223> murine VEGF target <400> 237 tgagcggccgg cagcggag </pre>	18

<210> 238
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> recognition helix

 <400> 238
 Arg Ser Asp Glu Leu Ser Arg
 1 5

<210> 239
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> recognition helix

 <400> 239

Gln Ser Gly His Leu Thr Lys
 1 5

<210> 240
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> target

 <400> 240
 gctggggg

9

<210> 241
 <211> 49
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer

 <400> 241
 cccagatctg gtatggcaa gaagaagcag caccatctgc cacatccag

49

<210> 242
 <211> 37
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> primer

 <400> 242
 cccaa

37

ggttttaccc ttcttgcgtt ggtgggt

 <210> 243
 <211> 18
 <212> PRT

<213> Artificial Sequence
 <220>
 <223> VZ+57
 <400> 243
 His Gln Asn Lys Lys Gly Gly Ser Gly Asp Gly Lys Lys Lys Gln His
 1 5 10 15
 Ile Cys

<210> 244
 <211> 9
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> target
 <400> 244
 gaggcattgg

9

<210> 245
 <211> 7
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> finger

<400> 245
 Thr Ser Gly His Leu Thr Arg
 1 5

<210> 246
 <211> 7
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> finger

<400> 246
 Thr Ser Gly His Leu Ile Arg
 1 5

<210> 247
 <211> 7
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> finger

<400> 247
 Thr Ser Gly His Leu Ser Arg
 1 5

<210> 248
 <211> 7
 <212> PRT

<213> Artificial Sequence

<220>

<223> finger

<400> 248

Thr Ser Gly His Leu Ala Arg
1 5

<210> 249

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> finger

<400> 249

Thr Ser Gly His Leu Arg Arg
1 5

<210> 250

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> finger

<400> 250

Thr Ala Gly His Leu Val Arg
1 5

<210> 251

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> finger

<400> 251

Thr Thr Gly His Leu Val Arg
1 5

<210> 252

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> finger

<400> 252

Thr Lys Asp His Leu Val Arg
1 5